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Application No. 09/430,132

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**AMENDMENTS TO THE CLAIMS:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS:**

1. (Currently Amended) A system comprising:  
an integrating sphere;  
an airtight chamber means effective to provide the inside of said chamber means with a non-air atmosphere of preselected composition; and  
a pedestal effective to mount said sample at the center of said sphere, said pedestal comprising angular adjustment means for rotating said sample in said sphere, said angular adjustment means comprising a termination for enabling said angular adjustment means to rotate said sample in said sphere from outside said chamber a means for mounting a sample inside said integrating sphere.
2. (Cancelled)
3. (Currently Amended) The system of Claim ~~[[2]]~~ 3, wherein said ~~means set sample in subdivided into two sample portions set pedestal means~~ comprises a mount effective to mount said sample and a reference sample portions back-to-back on said pedestal.
4. (Currently Amended) ~~The system of Claim 1~~ A system comprising:  
an integrating sphere;

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an airtight chamber effective to provide the inside of said chamber means with a non-air atmosphere of preselected composition; and

wherein said means for mounting is a clamping means a clamp for mounting said sample on the inside wall of said integrating sphere,

wherein said integrating sphere has a port passing through the wall of said sphere for exposing said sample to light flux incident upon said port from the inside of said sphere, and wherein said clamp forces said sample into fixed abutment with said port; and

heating means for heating said sample, said clamp being effective to mount said heating means in thermal contact with said sample effective to heat said sample to a preselected temperature, said clamp being effective to mount said heating means physically distant from said wall.

5-6. (Cancelled) .

7. (Currently Amended) The system of Claim [[6]] 4 wherein said clamp ~~clamping means~~ is a tension spring having an arm effective to abuttingly clamp said heating means against said sample and said sample against said wall, at least a portion of said heating means being ~~sandwiched~~ disposed between said sample and said arm.

8. (Currently Amended) The system of Claim [[7]] 4 wherein said ~~heater~~ heating means is an electrical resistive heater.

9. (Cancelled)

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10. (Currently Amended) ~~The system of Claim 9~~ In an integrating sphere, said sphere having a wall and a port for passing light flux from the inside of said sphere to the outside, means for mounting a sample effective to expose at least a portion of said sample to light flux exiting from said interior, said means for mounting comprising a clamping means for forcing said sample into fixed abutment with said port, wherein said means for mounting is a pedestal effective to mount said sample at the center of said sphere, said pedestal means comprising an angular adjustment means for rotating said sample in said sphere, said angular adjustment means comprising a termination means for ~~cambling~~ enabling said angular ~~adujust~~ adjustment means to rotate said sample in said sphere from outside ~~said a~~ a chamber means.
11. (Currently Amended) The system of Claim 10 wherein said ~~set sample is subdivided into two sample portions~~ set pedestal means comprises a mount effective to mount said two sample portions back-to-back on said pedestal.
12. (Currently Amended) The system of Claim 11 further comprising:  
wherein said means for mounting is a clamping means a clamp for mounting said a sample on the inside wall of said integrating sphere.
13. (Currently Amended) The system of Claim 12 wherein said integrating sphere has a port passing through the wall of said sphere, said means for mounting is effective to expose said sample to light flux incident upon said port from the inside of said sphere, and wherein said means for mounting comprises a clamping means for forcing clamp maintains said sample into fixed abutment with said port.

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14. (Currently Amended) The system in of Claim 13 wherein said means for mounting comprises a ~~heating means~~ heater for heating said sample, said ~~clamping means~~ clamp is effective to mount said heating means in thermal contact with said sample effective to heat said sample to a preselected temperature, said ~~clamping means~~ clamp being effective mount said heating means physically distant from said wall.
15. (Currently Amended) The system in Claim 14 wherein said ~~clamping means~~ clamp is a tension spring having an arm effective to abuttingly clamp said ~~heating means~~ heater against said sample and said sample against said wall, at least a portion of said ~~heating means~~ heater being ~~sandwiched~~ sandwiched between said sample and said arm.
16. (Original) The system in Claim 15 wherein said heater is an electrical resistive heater.
17. (New) The system as in Claim 1, further comprising:  
a clamp for mounting a sample on an inside wall of the integrating sphere.